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Notice of Allowability	Application No.	Applicant(s)	•
	10/660,633 Examiner	NISHIBAYASHI ET	AL.
	Sharlene Leurig	2879	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to the document filed January 15, 2004.			
2. X The allowed claim(s) is/are <u>1-10</u> .			
3. $igotimes$ The drawings filed on <u>12 September 2003</u> are accepted by	the Examiner.		
4.			
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 01152004 4. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Page 1 Notice of Informal Page 1 No./Mail Dat 7. Examiner's Amendm 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	ŕ

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-10 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Kubota et al. (6,465,941) discloses an electron emission element comprising a substrate and a plurality of protrusions protruding from the substrate, wherein each of the protrusions comprises a tip portion (Figure 36A, element 106e) having a sharp end which is located at the top end of the protrusion, a columnar portion (93e) whose side face extends upward relative to the surface of the substrate and which is located below the tip portion, and wherein the side face is provided with a cathode electrode film (25e) electrically connected to a conductive layer (105e) included in the protrusion.

Kubota fails to teach or suggest the protrusions being made of diamond.

The prior art of record fails to teach or suggest the combination of limitations as set forth in claim 1, and specifically comprising diamond protrusions protruding from a substrate, wherein each of the diamond protrusions has a columnar portion extending from the substrate and a tip portion located at the top of the protrusion, in addition to a conductive layer included in the protrusion which is electrically connected to a cathode electrode film formed on the side face of the columnar portions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharlene Leurig whose telephone number is (571) 272-2455. The examiner can normally be reached on Monday through Friday, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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